

1 BILL NO. S-83-07-03

2 SPECIAL ORDINANCE NO. S-137-83

3 AN ORDINANCE approving Civil City
4 Purchase Order #A-27387 by the City
5 of Fort Wayne by and through its
6 Board of Aviation and the Department
7 of Purchasing with Aviation Systems,
8 Inc.

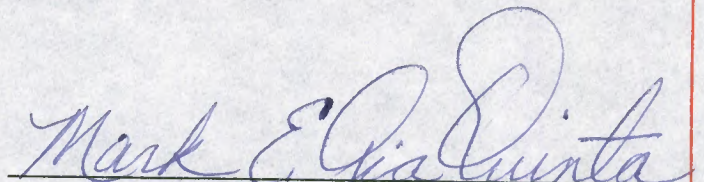
9 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL
10 OF THE CITY OF FORT WAYNE, INDIANA:

11 SECTION 1. That Civil City Purchase Order #A-27387,
12 between the City of Fort Wayne, Indiana, by and through its Civil
13 City Purchasing Agent and the Board of Aviation and the Depart-
14 ment of Purchasing with Aviation Systems, Inc., respectfully for:

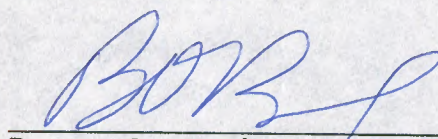
15 the awarding of the quote with respect to
16 the purchase of one (1) non-directional
17 beacon installed at Smith Field for the
18 Board of Aviation of the City of Fort Wayne,
19 Indiana;

20 involving a total cost of Fourteen Thousand Four Hundred Twenty
21 and No/100 Dollars (\$14,420.00), all as more particularly set
22 forth in said Purchase Order, which is on file in the Office of
23 the Department of Purchasing, and is by reference incorporated
24 herein, made a part hereof, and is hereby in all things ratified,
25 confirmed and approved.

26 SECTION 2. That this Ordinance shall be in full force
27 and effect from and after its passage, and any and all necessary
28 approval by the Mayor.

29 
30 Councilmember

31 APPROVED AS TO FORM
32 AND LEGALITY

33 
Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by GiaQuinta, seconded by _____, and duly adopted, read the second time by title and referred to the Committee Finance (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, 19____, at _____ o'clock 2.M., E.S.T.

DATE: 7-12-83

Sandra E. Kennedy
CITY CLERK

Read the third time in full and on motion by GiaQuinta, seconded by Stier, and duly adopted, placed on its passage. PASSED (LOST) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>9</u>	_____	_____	_____	_____
<u>BRADBURY</u>	<u>✓</u>	_____	_____	_____	_____
<u>BURNS</u>	<u>✓</u>	_____	_____	_____	_____
<u>EISBART</u>	<u>✓</u>	_____	_____	_____	_____
<u>GiaQUINTA</u>	<u>✓</u>	_____	_____	_____	_____
<u>SCHMIDT</u>	<u>✓</u>	_____	_____	_____	_____
<u>SCHOMBURG</u>	<u>✓</u>	_____	_____	_____	_____
<u>SCRUGGS</u>	<u>✓</u>	_____	_____	_____	_____
<u>STIER</u>	<u>✓</u>	_____	_____	_____	_____
<u>TALARICO</u>	<u>✓</u>	_____	_____	_____	_____

DATE: 7-26-83

Sandra E. Kennedy
- CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ZONING MAP) (GENERAL) (ANNEXATION) (SPECIAL)

(APPROPRIATION) ORDINANCE (RESOLUTION) NO. 137-83

on the 26th day of July, 1983.

ATTEST:

(SEAL)

Sandra E. Kennedy
CITY CLERK

Ray - A. E. Bork
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 27th day of July, 1983, at the hour of 11:30 o'clock 7.M., E.S.T.

Sandra E. Kennedy
CITY CLERK

Approved and signed by me this 28th day of July, 1983, at the hour of 10 o'clock 8.M., E.S.T.

Win Moses, Jr.
WIN MOSES, JR. - MAYOR

DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET, ROOM 940
FORT WAYNE, IN 46802

MAIL ALL CORRESPONDENCE, CLAIM VOUCHERS, ETC., TO:

BOARD OF AVIATION
BAER FIELD, ROOM 209
FORT WAYNE IN 46809

840

AVIATION SYSTEMS, INC.
P.O. BOX 12753
OVERLAND PRK KS 66212

0616-01

DELIVER TO: DEPART-
MENT OR DIVISION

BOARD OF AVIATION
BAER FIELD, ROOM 209
FORT WAYNE IN 46809

A- 27387

DATE 07/06/83

REQ. NO. 00159

THE ABOVE INFORMATION MUST APPEAR ON ALL INVOICES,
BILLS OF LADING, DELIVERY TICKETS, PACKAGES AND
CORRESPONDENCE.

INVOICE IN DUPLICATE

XX

CIVIL CITY

CITY UTILITIES

APPROPRIATION AND FUND NUMBER 1-20-120-OFF-C4-423

CASH DISCOUNT TERMS % IF PAID WITHIN DAYS FROM DELIVERY AND
ACCEPTANCE OF GOODS OR PERFORMANCE OF SERVICES. (DEDUCTION FOR DISCOUNT SHOWN BELOW)

C027387 YT N/A

QUANTITY ORDERED	UNIT	MATERIALS, SUPPLIES OR SERVICES	UNIT PRICE	AMOUNT
1	EA	TAX EXEMPT (UNLESS OTHERWISE INDICATED) #001 PER WRITTEN QUOTE #773 VISTA MODEL VB-50 NOB WITH STANDARD SYMMETRICAL "T" ANTENNA TO BE INSTALLED AT SMITH FIELD TOTAL: \$14,420.00	14420.00	14420.00
		SUBJECT TO COUNCILMANIC APPROVAL: ORDINANCE NO: _____ DATE: _____		
		FOR INFORMATION: CONTACT PURCHASING 219-427-1101	TOTAL	14420.00

COMPLIANCE WITH THE
DELIVERY DATE RE-
QUESTED WILL AVOID
FOLLOW UP CORRE-
SPONDENCE.

UNLESS OTHERWISE INDI-
CATED THE PRICES SHOWN
INCLUDE ALL CHARGES
FOR DELIVERY, PACKING,
ETC. NECESSARY TO COM-
PLETE DELIVERY TO DES-
TINATION SPECIFIED.

NOTE

READ
INSTRUCTIONS ON
THE BACK OF THIS
ORDER

THE CONTRACTOR OR VENDOR,
BY ACCEPTING THIS ORDER,
AGREES TO THE GENERAL CON-
DITIONS AND TERMS OF AGREE-
MENT ON THE BACK OF THIS OR-
DER.

UNLESS OTHERWISE INDICATED,
THE PRICES SHOWN DO NOT IN-
CLUDE TAXES OF ANY KIND.

EXEMPTION BLANKS WILL BE
FURNISHED WHEN NECESSARY.

INDIANA SALES TAX EXEMPTION
CERTIFICATE NUMBER
034508-03

IF THIS ORDER DOES NOT
AGREE WITH YOUR QUO-
TATION KINDLY RETURN
IT WITH AN EXPLANA-
TION.

I HEREBY CERTIFY THAT THE COST OF THE ABOVE PURCHASE IS FULLY COVERED BY
UNENCUMBERED BALANCES IN THE ABOVE FUNDS AND THAT THE EXPENDITURE THERE-
FORE HAS BEEN DULY AUTHORIZED AND APPROPRIATED.

I HEREBY CERTIFY UPON MY OWN PERSONAL KNOWLEDGE THAT THIS ORDER IS AUTHOR-
IZED BY A PROPERLY EXECUTED AND APPROVED REQUISITION ON FILE IN THIS OFFICE.

CITY CONTROLLER

DIRECTOR OF PURCHASES

PER _____

PER _____

City of Fort Wayne
DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET ROOM 940
FORT WAYNE, IN 46802

PLEASE INDICATE THIS NUMBER
ON ALL CORRE

QUOTE
NO:

773

PAGE

2

DATE OF REQUEST

3-30-83

☒ Quotations

☐ Sealed
Bids

WILL BE RECEIVED AT
THIS OFFICE UNTIL

4/12/83

TO Manirco
P.O. Box 111-TR
Mansfield, Ohio
44901

TO S.O.S. Signal Devices
3050 T.N. Hope St.
Philadelphia, Penn.
19133

TO Whelan
3-1 Winter Ave.
Deep River, Conn.
06417

Item	SUMMARY OF QUOTES		
	# 1	# 2	# 3
1			
2			
3			
4			
5			
6			
7			
8			

QUOTATIONS WILL BE OPENED IN ACCORDANCE TO RULES
AND REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.
RESPECTFULLY.

Carol Offner

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
1	Pmt.	NON-DIRECTIONAL BEACON INSTALLED AT SMITH FIELD PER ATTACHED SPECS. OR THE EQUIVAL NT		
PLEASE SEND LITERATURE ON THE TYPE QUOTING AND COMPLETE BREAKDOWN OF PRICING				
PRICE QUOTED: _____			F.O.B. _____	
DELIVERY: _____			BRAND: _____	

THIS IS ONLY AN INVITATION TO QUOTE AND NOT AN ORDER. THE ABOVE QUOTES ARE SUBMITTED IN ACCORDANCE WITH THE REGULATIONS
ON THE REVERSE SIDE OF THIS SHEET.

SIGNATURE OF BIDDER: _____

DATE: _____

PURCHASING 1

846
#159

City of Fort Wayne
DEPARTMENT OF PURCHASES
 NUMBER ONE EAST MAIN STREET ROOM 940
 FORT WAYNE, IN 46802

PLEASE INDICATE THIS NUMBER
ON ALL CORRESPONDENCE.

QUOTE NO. **00773**

DATE OF REQUEST

3-30-83

☒ Quotations

☐ Sealed
Bids

WILL BE RECEIVED AT
THIS OFFICE UNTIL

4/12/83

PAGE

1

TO
Corning Glassworks
Houghton Park
Corning, New York
14830

TO
Amglo
5255 Michigan Ave.
Rosemont Ill.
60018

TO
Crouse-Hinds
P. O. Box 4899
Syracuse, New York
13221

Item	SUMMARY OF QUOTES		
	# 1	# 2	# 3
1			
2			
3			
4			
5			
6			
7			
8			

QUOTATIONS WILL BE OPENED IN ACCORDANCE TO RULES
AND REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.
RESPECTFULLY,

Carol Offner

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
1	Pmt.	NON-DIRECTIONAL BEACON INSTALLED AT SMITH FIELD PER ATTACHED SPECS. OR THE EQUIVALENT PLEASE SEND LITERATURE ON TYPE QUOTING AND COMPLETE BREAKDOWN OF PRICING PRICE QUOTED: _____ F.O.B. _____ DELIVERY: _____ BRAND: _____		

THIS IS ONLY AN INVITATION TO QUOTE AND NOT AN ORDER. THE ABOVE QUOTES ARE SUBMITTED IN ACCORDANCE WITH THE REGULATIONS
ON THE REVERSE SIDE OF THIS SHEET.

SIGNATURE OF BIDDER:

DATE:

PURCHASING **1**

CITY OF FORT WAYNE
DEPARTMENT OF PURCHASES
 NUMBER ONE EAST MAIN STREET ROOM 940
 FORT WAYNE, IN 46802

PLEASE INDICATE THIS NUMBER
ON ALL CORRESPONDENCE.

QUOTE
NO:

773

PAGE

#3

DATE OF REQUEST

3-30-83

☐ Quotations
☒ Bids

☐ Sealed
☐ Bids

WILL BE RECEIVED AT
THIS OFFICE UNTIL



4/12/83

TO
Southern Avionics
P.O. Box 53456
Beaumont, Texas
7706

TO
Aviation Systems, Inc.
P.O. Box 12753
Overland Park KA 66212

TO

Item	SUMMARY OF QUOTES		
	# 1	# 2	# 3
1			
2			
3			
4			
5			
6			
7			
8			

QUOTATIONS WILL BE OPENED IN ACCORDANCE TO RULES
AND REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.
RESPECTFULLY,

Carne Office

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
1	Pmt.	<p>NON-DIRECTIONAL BEACON INSTALLED AT SMITH FIELD PER ATTACHED SPECS. OR THE EQUIVALENT</p> <p>PLEASE SEND LITERATURE ON THE TYPE QUOTING AND COMPLETE BREAKDOWN OF PRICING</p> <p>PRICE QUOTED: _____ F.O.B. _____</p> <p>DELIVERY: _____ BRAND: _____</p>		

THIS IS ONLY AN INVITATION TO QUOTE AND NOT AN ORDER. THE ABOVE QUOTES ARE SUBMITTED IN ACCORDANCE WITH THE REGULATIONS
ON THE REVERSE SIDE OF THIS SHEET.

SIGNATURE OF BIDDER:

DATE:

PURCHASING **1**

PLEASE INDICATE THIS NUMBER
ON ALL CORRESPONDENCE.

QUOTE
NO:

773

PAGE

2

3-30-83

☐ Quotations

☐ Sealed Bids

WILL BE RECEIVED AT
THIS OFFICE UNTIL

4/12/83

Aviation Systems, Inc.
P.O. Box 12753
Overland Park, Ks. 66212

The Contractor and his sub-contractors, if any, shall not discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to his hire, tenure, conditions or privileges of employment or any matter directly or indirectly related to employment, because of his race, color, religion, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

PLEASE QUOTE BELOW LOWEST PRICES, WHICH MUST
INCLUDE ALL DELIVERY CHARGES (INCLUDING FREIGHT,
PARCEL POST AND EXPRESS) UNLESS OTHERWISE
SPECIFIED, FOR PURCHASING MERCHANDISE OR SER-
VICE DESCRIBED BELOW.

QUOTATIONS WILL BE OPENED IN ACCORDANCE TO RULES
AND REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.
RESPECTFULLY,

ALLY,
Coral Office

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
1	Pmt.	NON-DIRECTIONAL BEACON INSTALLED AT SMITH FIELD PER ATTACHED SPECS. OR THE EQUIVALENT		
		PLEASE SEND LITERATURE ON THE TYPE QUOTING AND COMPLETE BREAKDOWN OF PRICING		
		PRICE QUOTED: <u>Refer to attached proposal</u>	F.O.B. <u>Fort Wayne</u>	
		DELIVERY: <u>60 days ARO</u> BRAND: <u>Vista or Nautel</u>		

THIS IS ONLY AN INVITATION TO QUOTE AND NOT AN ORDER. THE ABOVE QUOTES ARE SUBMITTED IN ACCORDANCE WITH THE REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.

SIGNATURE OF BIDDER:

DATE: April 21, 1983

VENDOR 2



NAVAID/COMMUNICATIONS Specialists

City of Fort Wayne
Department of Purchases
Room 940 City-County Bldg.
One Main Street
Fort Wayne, Indiana 46802

April 21, 1983

Dear Sir:

Thank you for the opportunity to quote our fine product line of NDBs to your City. ASI has two different products to offer your City's Airport. The key features of each system are summarized below.

VISTA. This is an all solid-state beacon capable of up to 50-watt output with good reliability, as demonstrated at hundreds of installations. The product is approved by the FAA under FAR part 171 for non-federally owned and operated facilities. The system is ideal for those airport sponsors who want a good NDB for the money, recognizing that the FAA would never take over the facility nor maintain it.

NAUTEL. These products manufactured by Nautel are of very modern design. The transmitters are all solid state systems which have been purchased by the U.S. Government in large quantities. The system meets a stringent FAA specification, FAA Type FA9782, and has hermetic semiconductors throughout. These units have common spares with NDBs the FAA owns and operates. This makes the Nautel systems eligible for FAA takeover if other criteria are met. In federally funded NDB projects, the Nautel beacon has been the only acceptable product.

ANTENNA AUTO TRACK. The auto track feature of this equipment is excellent. It will accommodate a wide range of antenna and ground conductivity variations caused by weather and other moisture-related changes. The recent rain and moisture experienced across the country causes the equipment you specified to shut down, whereas the Nautel units stayed on the air. This system provides the best in reliability and availability.

VOICE MODULATION. The Nautel transmitter is capable of voice modulation, which means that you may add at a later date, voice transmission of weather or other airport area advisory information. We know of no other 50-watt solid-state beacon with this capability.

BATTERY BACKUP. Emergency battery backup is an important feature of this equipment. If the primary power to your facility fails, the standby battery power system automatically keeps it on the air for several hours. When the primary power is normal, the batteries are maintained in a charged status for emergency use. Many times a primary power failure will cause a station outage requiring the maintenance technician to travel to the facility to restore it to service. Our experience is that the battery back-up has saved customers thousands of dollars by avoiding loss of navigation service and wasted technician visits to the site.

ANTENNA SYSTEMS. If land is available, ASI recommends the use of a symmetrical "T" antenna 56 feet high. We have utilized this system and know that this antenna is far superior to the 50-foot mast antenna in the bid specification. The land required for a symmetrical "T" is 250 by 120 feet.

NAUTEL MAST ANTENNA. Where real estate is a problem, a 35-foot self-supported mast antenna takes 120 by 120 feet and requires no guys. If you wanted to fence in the antenna area, the enclosure could be as small as 10 by 10 feet. Moisture variations demand a high performance antenna tuning unit to keep the system on the air. The Polestar antennas we supply have a built-in antenna tuning system which works very well and keeps the antenna impedance optimum during weather and moisture changes.

We have found the 50-foot mast antenna to be unacceptable when coupled with the manufacturer's equipment specified. We have had to increase antenna length up to 70 feet in order for their tuning unit to operate satisfactorily. We know of other sites where the 50-foot mast antenna coupled with the equipment you have specified has shut down during moisture changes. We can supply names of customers on request to confirm this. The 35-foot tuned-to-frequency Nautel antenna we are offering is more efficient than the 50-foot mast specified, but not as efficient as our 56-foot Symmetrical "T" antenna.

ANTENNA GROUND SYSTEMS. ASI offers a 3000-foot ground radial system using #10 bare copper wire and 8-foot copper clad ground rods for each of our antenna systems. This is twice the ground system usually offered by our competitors and one size larger wire size. We do this because we believe our installation should last the life of the electronics. The lighter weight wire the competition usually uses deteriorates much faster and thus will have to be replaced sooner.

SHELTERS. The equipment shelter offers maintenance personnel protection from the elements, provides security and also provides a place to store spare parts, tools, test equipment, documentation and other necessary items used to maintain the navaid facility. ASI offers a simple 4 foot by 6 foot wooden fabricated shelter which is relatively inexpensive compared with the convenience it will offer to the maintenance technician.

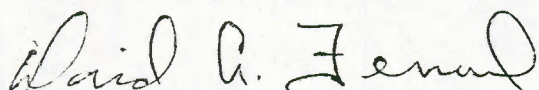
INSTALLATION. The installation quotation is actually contained in two parts. The first is the normal installation activity, which can be estimated accurately and offered to you as part of our fixed-price bid. The second part is the FAA-witnessed ground and flight inspection. Sometimes the FAA has difficulty scheduling these activities, especially the flight check. It is very wasteful of our time to remain on site after the installation is complete, waiting for the FAA inspections. For this reason, we have offered a man/day rate plus travel expense for this activity. This keeps the cost to a minimum because the customer and the FAA can decide when ASI is needed and then know how much it will cost. More importantly, we don't think ASI's services will be needed for the FAA flight test and possibly not for the ground inspection. The customer's maintenance technician will be trained by ASI on-site and should be capable of operating the equipment during these FAA activities.

DELIVERY SCHEDULE. The proposed equipment is in current production. Relatively short delivery can be accommodated. Plan on a 60-day delivery after a firm order is received by ASI in Overland Park. Faster delivery could possibly be accomplished at the time the order is placed. Once on site, the ASI installation crew will take about 20 days to have the facility on the air.

Thank you again for the opportunity to quote our equipment and installation services to your City. Should you have any questions concerning this quote, please give me a call. In my absence, ask for Mr. Al Cowan or Mr. Earl Long.

Sincerely yours,

AVIATION SYSTEMS, INC.



David A. Ferron
President

Enclosures: Quotation/Purchase Agreements
Product Brochures
Installation S.O.W.
Contract Terms and Conditions

AVIATION SYSTEMS INC

QUOTATION/PURCHASE AGREEMENT
VISTA MODEL VB-50 NDB WITH
STANDARD SYMMETRICAL "T" ANTENNA

PREPARED FOR: CITY OF FORT WAYNE
DEPARTMENT OF PURCHASES
ADDRESS: ROOM 940 CITY-COUNTY BLDG.
ADDRESS: ONE MAIN STREET
CITY,ST,ZIP: FORT WAYNE, INDIANA 46802

QUOTE No. 8346B

ITEM	ID NUMBER	DESCRIPTION	UNIT PRICE	QUAN	TOTAL PRICE
1	VB-50	10-50 WATT NDB TRANSMITTER WITH BUILT IN AUTO TUNER AND LOADING COIL		1	
2	ASI-200	SYMMETRICAL "T" ANTENNA KIT WITH TWO 56-FOOT GUYED TOWERS		1	
3	VBR-100	MONITOR RECEIVER		1	
4	VLA-1	LOOP ANTENNA		1	
5	ASI-G3000	3000-FOOT GROUND RADIAL SYSTEM		1	
6	VAP-36	BATTERY BACK-UP SYSTEM WITH BATTERIES		1	
7	INSTALL	INSTALLATION PER S.O.W.		1	
8	ASI-SPR-V	SPARES KIT		1	
OPTIONAL ITEMS					
9	ASI-4X6	4 X 6 FT SHELTER INSTALLED		1	2,500

DELIVERY SCHEDULE					
EQUIPMENT:	60 DAYS ARO	PACKAGING/PACKING		INCL	
SERVICES:	PER S.O.W.	ENGINEER TRAVEL EXPENSE:	\$350 RT	IF REQ.	
DELIVERY POINT F.O.B.		ENGINEER SUPERVISION:	\$350/DAY	IF REQ.	
EQUIPMENT:	OVERLAND PK, KS	SHIPPING COSTS (ESTIMATED)		200*	
SERVICES:	ON SITE	TOTAL PRICE	ITEMS 1-8		\$14,420

*EQUIPMENT: DELIVERED TO THE SITE @ NO SHIPPING COSTS IF ASI INSTALLED
ENCLOSURES: THIS OFFER IS VALID FOR 45 DAYS
1. CONTRACT TERMS AND CONDITIONS FROM COVER LETTER DATE
2. INSTALLATION STATEMENT OF WORK
OFFERED BY David A. Ferron
DAVID A. FERRON

IF PURCHASER AGREES TO ABOVE:	ORDER ACKNOWLEDGED BY ASI:
NAME	OFFEROR
SIGNATURE	SIGNATURE
TITLE	TITLE
DATE	DATE

AVIATION SYSTEMS INC

QUOTATION/PURCHASE AGREEMENT
NAUTEL 50 WATT NDB (EQUIVALENT TO FAA TYPE FA9782)
STANDARD SYMMETRICAL "T" ANTENNA

PREPARED FOR: CITY OF FORT WAYNE, INDIANA
DEPARTMENT OF PURCHASES
ADDRESS: ROOM 940 CITY-COUNTY BLDG.
ADDRESS: ONE MAIN STREET
CITY, ST, ZIP: FORT WAYNE, INDIANA 46802

QUOTE No. 8346A

ITEM	ID NUMBER	DESCRIPTION	UNIT PRICE	QUAN	TOTAL PRICE
1	ND200S	10-TO-50 WATT NDB TRANSMITTER (FA9782)		1	
2	NX 200 TUB	AUTO ANTENNA TUNING UNIT		1	
3	NBR-1	BEACON MONITOR RECEIVER		1	
4	NLA-1	ACTIVE LOOP ANTENNA		1	
5	ASI-200C	SYMMETRICAL "T" ANTENNA KIT WITH TWO 56-FOOT GUYED TOWERS		1	
6	ASI-G3000	3000-FOOT GROUNDING KIT		1	
7	ASI-BBU4	BATTERY BACK-UP SYSTEM WITH BATTERIES		1	
8	INSTALL	INSTALLATION PER S.O.W.		1	
9	ASI-SPR-N	SPARE PARTS KIT		1	
OPTIONAL ITEMS					
10	ASI-4X6	4 X 6 FT SHELTER INSTALLED		1	2500

DELIVERY SCHEDULE			
EQUIPMENT: 60 DAYS ARO	PACKAGING/PACKING		INCL
SERVICES: PER S.O.W.	ENGINEER TRAVEL EXPENSE: \$350 RT		IF REQ.
DELIVERY POINT F.O.B.	ENGINEER SUPERVISION: \$350/DAY		IF REQ.
EQUIPMENT: OVERLAND PK, KS	SHIPPING COSTS (ESTIMATED)		200*
SERVICES: ON SITE	TOTAL PRICE	ITEMS 1-9	\$19,223

*EQUIPMENT: DELIVERED TO THE SITE @ NO SHIPPING COSTS IF ASI INSTALLED

ENCLOSURES: 1. CONTRACT TERMS AND CONDITIONS 2. INSTALLATION STATEMENT OF WORK
THIS OFFER IS VALID FOR 45 DAYS FROM COVER LETTER DATE

OFFERED BY David A. Ferron
DAVID A. FERRON

IF PURCHASER AGREES TO ABOVE:	ORDER ACKNOWLEDGED BY ASI:
NAME	OFFEROR
SIGNATURE	SIGNATURE
TITLE	TITLE
DATE	DATE

AVIATION SYSTEMS INC

QUOTATION/PURCHASE AGREEMENT NAUTEL 50 WATT NDB (EQUIVALENT TO FAA TYPE FA9782) WITH POLESTAR HIGH EFFICIENCY 35' ANTENNA

PREPARED FOR: CITY OF FORT WAYNE, INDIANA
DEPARTMENT OF PURCHASES
ADDRESS: ROOM 940 CITY-COUNTY BLDG.
ADDRESS: ONE MAIN STREET
CITY, ST, ZIP: FORT WAYNE, INDIANA 46802

QUOTE No. 8346C

ITEM	ID NUMBER	DESCRIPTION	UNIT PRICE	QUAN	TOTAL PRICE
1	ND200S	10-TO-50 WATT NDB TRANSMITTER (FA9782)		1	
2	PA-35D	35-FOOT HIGH EFFICIENCY MAST ANTENNA WITH AUTO TUNE		1	
3	NBR-1	BEACON MONITOR RECEIVER		1	
4	NLA-1	ACTIVE LOOP ANTENNA		1	
5	ASI-G3000	3000-FOOT GROUNDING KIT		1	
6	ASI-BBU4	BATTERY BACK-UP SYSTEM WITH BATTERIES		1	
7	INSTALL	INSTALLATION PER S.O.W.		1	
8	ASI-SPR-N	SPARE PARTS KIT		1	
<u>OPTIONAL ITEMS</u>					
9	ASI-4X6	4 X 6 FT SHELTER INSTALLED		1	2500

DELIVERY SCHEDULE

EQUIPMENT: 60 DAYS ARO
SERVICES: PER S.O.W.

DELIVERY POINT F.O.B.

EQUIPMENT: OVERLAND PK, KS
SERVICES: ON SITE

PACKAGING/PACKING

ENGINEER TRAVEL EXPENSE: \$350 RT

ENGINEER SUPERVISION: \$350/DAY

SHIPPING COSTS (ESTIMATED)

TOTAL PRICE

ITEMS 1-8

INCL

IF REQ.

IF REQ.

200*

19,367

*EQUIPMENT: DELIVERED TO THE SITE @ NO SHIPPING COSTS IF ASI INSTALLED

ENCLOSURES:

1. CONTRACT TERMS AND CONDITIONS
2. INSTALLATION STATEMENT OF WORK

THIS OFFER IS VALID FOR 45 DAYS
FROM COVER LETTER DATE

OFFERED BY

David A. Ferron
DAVID A. FERRON

IF PURCHASER AGREES TO ABOVE:

NAME

SIGNATURE

TITLE

DATE

ORDER ACKNOWLEDGED BY ASI:

OFFEROR

SIGNATURE

TITLE

DATE

STATEMENT OF WORK
INSTALLATION OF 50 WATT NOB
WITH ANTENNA

CONTRACTOR'S RESPONSIBILITIES.

1. PROVIDE EQUIPMENT AS LISTED ON THE QUOTATION/PURCHASE AGREEMENT.
2. INSTALL THE ANTENNA SUPPORTS WITH FIBERGLASS INSULATORS INCLUDING GUY WIRES, GUY ANCHORS AND GUY GRIPS, IF GUYS ARE NECESSARY.
3. CONNECT THE BATTERY BACKUP SYSTEM FOR THE TRANSMITTER.
4. INSTALL THE NON-DIRECTIONAL BEACON IN ACCORDANCE WITH 6000 CONSTRUCTION STANDARDS.
5. PROVIDE ON-SITE "HANDS-ON" TRAINING FOR THE NOB MAINTENANCE TECHNICIAN. TRAINING WILL INCLUDE EQUIPMENT DEMONSTRATION AND OPERATION.
6. INSTALL THE GROUND RADIAL SYSTEM.
7. PROVIDE CONCRETE, REINFORCEMENT ROD, FORMS AND ALL OTHER CONSTRUCTION MATERIALS.
8. PROVIDE AND CONNECT POWER CABLE INTO THE BEACON FROM THE CUSTOMER-SUPPLIED POWER SOURCE.
9. TUNE AND ALIGN TRANSMITTER TO THE ANTENNA.
10. TUNE AND ALIGN TRANSMITTER INTERNAL MONITORING SYSTEM.
11. INSTALL REMOTE MONITOR RECEIVER AT CUSTOMER'S REMOTE MONITORING SITE.
12. PERFORM SITE CLEANUP AS REQUIRED.
13. PERIODICALLY REPORT TO CUSTOMER THE INSTALLATION STATUS.
14. PERFORM TOTAL SYSTEM OPERATIONAL TEST.
15. COLLECT AND REPORT FACILITY DATA TO CUSTOMER.

STATEMENT OF WORK (CONTINUED)

OWNER'S RESPONSIBILITIES

1. PROVIDE A STATION LICENSE FOR THE FACILITY.
2. PROVIDE POWER TO THE NOB SITE; 110 VOLT 30 AMP SERVICE, SINGLE PHASE WITH QUICK DISCONNECT AND METER (IF REQUIRED BY LOCAL CODES). THE LAST 200 FEET SHOULD BE UNDERGROUND.
3. PROVIDE FOR SITE PREPARATION (IF REQUIRED). THIS INCLUDES ANY CLEARING, GRADING, LAND FILL, TREE REMOVAL, BOULDER REMOVAL, ROOT REMOVAL OR OTHER SITE IMPROVEMENTS NECESSARY TO ALLOW ASI TO INSTALL THE NOB WITHOUT HINDERANCE. IN GENERAL THE SITE SHOULD SUPPORT VEHICULAR TRAFFIC.
4. PROVIDE ALL LOCAL BUILDING AND/OR CONSTRUCTION PERMITS.
5. PROVIDE A MAINTENANCE TECHNICIAN WITH A MINIMUM SECOND CLASS FCC RADIOTELEPHONE LICENSE FOR ASI'S HALF-DAY ON-SITE TRAINING CLASS.
6. PROVIDE ALL WEATHER ACCESS TO THE EQUIPMENT SITE.
7. PROVIDE A LOCATION FOR THE INSTALLATION OF THE REMOTE ALARM RECEIVER, AND PROVIDE POWER TO WITHIN 4 FEET OF THE RECEIVER LOCATION.

AVIATION SYSTEMS, INC.
P.O. BOX 12753
OVERLAND PARK, KANSAS 66212
U.S.A.
(913) 648-5313

CONTRACT TERMS AND CONDITIONS

GENERAL PROVISIONS

These CONTRACT TERMS AND CONDITIONS apply to any contract that they are referenced by, unless specifically excluded in the referenced Quotation/Purchase Agreement and/or referenced Statement of Work.

TITLE TO PRODUCTS

Title shall pass to Purchaser upon delivery to a common carrier at the contractor's main office, unless otherwise provided in the contract. The Purchaser shall bear all risk of loss in transit and all charges for shipping unless otherwise provided in the contract.

PACKAGING AND PACKING

Unless otherwise specified in the Statement of Work and priced on the equipment lists, the equipment purchased shall be packaged and packed for Domestic shipments.

PRICE CHANGE

The price quoted on the cover letter or attached equipment list are subject to change without notice if acceptance is not received by the contractor prior to the expiration of the validity date given in the offer.

PAYMENT TERMS

A. Equipment

1. Payment shall be due C.O.D. when delivered to the site unless credit terms have been arranged and so stated on the Quotation/Purchase Agreement.

2. Should the customer request split or partial shipments, payment shall be due for each partial shipment from the factory. The Contractor will determine equitable prices for partial shipment if not stated on original order.

Rev. 1/24/1983.

3. Any changes or variations to the preceding payment terms are subject to approval by the Contractor who reserves the right to suspend production, shipment or installation until satisfactory arrangements are made.

B. Services

1. Payment for installation services shall be due, net 10 days, after completion of installation. Installation is considered complete upon concurrence by Purchaser's representative that the work is satisfactory at time of installation or by written notification by the Contractor in the absence of Purchaser's on site inspection. For projects requiring more than 30 days to complete, the contractor has the right to invoice for progress payments.

2. The Contractor may invoice Purchaser for equipment cost at the time of delivery of equipment, when the contract calls for Contractor installation.

C Late Payments. If payment is not received when due, in accordance with the payment terms of this contract, a penalty of 3% per month on the unpaid balance will be charged.

TAXES AND FEES

Contractor's offer includes no costs for taxes, licenses or fees. Any fees, taxes or licenses shall be for the account of the Purchaser.

TERMINATION

A. Termination of this agreement may be effected by mutual concurrence of both parties. A termination initiated by the Purchaser shall be at no cost to the Contractor and shall require the Purchaser to reimburse the Contractor for all non-recoverable expenses (including overhead, General and Administrative expenses and reasonable profit) expended by the Contractor up to the date of the termination.

B. A termination initiated by the Contractor shall be governed by the clause "DELAYS IN PERFORMANCE" which follows.

DELAYS IN PERFORMANCE

A. Contractor's performance hereunder shall be excused by acts of God, insurrections, riots, fires, war, and warlike operations, explosions, accidents, governmental acts, acts of the public enemy, epidemic, strikes and labor disputes, inability to obtain material, and laws, regulations, or restrictions of the Government of the Purchaser, or the Government of the United States or a State

Government. The Contractor's performance shall be excused by all other matters not listed above which are beyond the control of the Contractor and which would affect the ability of the Contractor to perform the contracted work.

B. In the event performance hereunder by the Contractor becomes impossible or is delayed by reason of a cause or causes referred to in the paragraph above, the parties agree to consult with each other with respect to agreements to extend the time for performance, but if no such agreement is reached within a reasonable time (not to exceed six months) following the actual occurrence of such causes, then this Agreement may be terminated by notice in writing by the Contractor, and the Purchaser will reimburse the Contractor for all non-recoverable expenses (including overhead, General and Administrative expenses and reasonable profit) expended by the Contractor up to the date of the termination.

C. If for any reason outside of the reasonable control of the Contractor, the Contractor is unable to deliver or install the equipment within six months from the date of this contract then the Contractor reserves the right to adjust its prices consistent with its current pricing for installation and equipment. The above shall include but not be limited to the Purchaser not having access to the site or the lack of an FCC station operating license.

D. FCC station licenses are to be provided by Purchaser to the Contractor prior to operation of the facilities. Lack of an FCC station license may be cause for delay of delivery of equipment and installation.

LIMITED WARRANTY

A. The Contractor warrants that all services performed by it to be free from defects in workmanship, and that the work performed was in accordance with the specified Statement of Work and accepted industry standards for a period of 60 days after completion of the ground inspection, or 30 days after completion of flight inspection, whichever occurs earlier. The obligation of the company shall be limited to repairing or replacing any material damaged or destroyed by the Contractor and correcting any deficiencies in the contracted for services at its own expense.

B. The Contractor is not liable for any damages or personal injury resulting directly or indirectly from the design, material, workmanship, or installation of any of its products or its suppliers, following the FAA ground inspection.

C. The Purchaser shall not use or authorize anyone to use the aeronautical facilities being installed prior to formal acceptance by the FAA or competent government authority.

D. The Contractor does not offer or provide any warranty prior to acceptance by the FAA or competent government authority and after acceptance, only then shall that warranty listed in the paragraph titled LIMITED WARRANTY become effective.

E. The Contractor neither assumes nor authorizes any persons or employees to assume for it any other liability in connection with its products or services.

F. The Contractor reserves the right to make product improvements and changes at no cost to the Purchaser without notice to the Purchaser.

G. Equipment not manufactured by the Contractor shall be subject to the original manufacturer's warranty and such warranties shall be surrendered to the Purchaser as required by the contract or Purchase Agreement.

H. The Contractor warrants its installation to be in accordance with applicable FAA requirements and good engineering practice for a period of 30 days following ground and flight inspection.

I. The foregoing warranty is exclusive and is given and accepted in lieu of any and all other warranties, expressed or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose. The remedies of the Purchaser shall be limited to those provided herein. In no event will the Contractor be liable for collateral or consequential damages or for any other costs.

INSPECTION

A. Source inspection of goods, if desired by the Purchaser, must be made at least one week prior to the scheduled shipment at point of manufacture, and shall consist of inspection of completed assemblies only.

B. Inspection of goods at the installation site shall be done within 24 hours of the arrival of Contractor's installation personnel.

C. Inspection of installation services must be done following completion of installation and within 24 hours of notification by the Contractor's representative that installation is complete.

DRAWINGS

Drawings furnished by the Contractor prior to contract award are to be considered preliminary and are submitted only to demonstrate general style, arrangement, and approximate dimensions.

No work shall be based upon preliminary drawings and nothing herein shall be interpreted as an agreement to furnish detailed shop or working drawings, and "as built" drawings, unless such drawing requirements are defined in the Statement of Work and priced accordingly.

CHANGES AND ADDITIONAL WORK

The Purchaser may make written changes or additions to the contract. Said changes must be in writing and within the general scope of the Agreement and within the capacity of the Contractor to perform and shall include specifications, drawings, statement of work, and the terms and place of delivery. The order must be signed by authorized representatives of both parties.

ARBITRATION

The parties hereto agree that any difference or dispute in the interpretation of or in the performance of this Contract which cannot be settled by mutual agreement will be submitted to the American Arbitration Association for resolution in the State of Kansas.

TRENCHING

The Purchaser shall be liable for delays and extra costs caused by unspecified rock, under ground pipe and buried cable which impede the progress of the installation.

PATENTS

The Contractor makes no warranty respecting infringement by any U.S. or foreign patent or patent rights by the manufacture, sale or use of any product, or component part sold herein.

PERMITS, RELEASES, CLEARANCES, ETC.

A. Purchaser shall provide all permits, releases, clearances, exemptions or documentation relating to any duties, taxes, levies, or other public charges levied or imposed on the ordered services, facilities, equipment, or materials, including all evidence of payment or waiver thereof, and if any such charge is payable, the same shall be paid or reimbursed to the Contractor, by the Purchaser as due in order to expedite completion of construction or installation.

B. Purchaser shall provide all permits, licenses, all-weather access, right of way, easements and property rights for execution of surveys or for installation, and construction, and use of cables, control lines and other facilities or equipment required to be used or installed by the Contractor.

C. Purchaser shall be responsible, after receiving delivery of the equipment, for off loading the shipment, proper storage and security from vandalism and the elements, and shall assume all risk of loss or damage to the material, during the installation.

BENEFICIAL OCCUPANCY

When the Purchaser is receiving complete or partial utilization of the equipment and services supplied by the Contractor, beneficial use shall be deemed to be in effect. If for any reason, payment is overdue, the Contractor reserves the right to notify the Purchaser that this "Beneficial Occupancy" clause is being invoked, whereupon interest shall be charged in accordance with paragraph "PAYMENT TERMS, C. Late Payments".

TRAINING AGREEMENT

A. The Contractor will furnish training instructors, and/or training materials for Purchaser's trainee(s), when training is stipulated in the Statement of Work or stated in the Quotation/Purchase Agreement.

B. Failure by the Purchaser to furnish a qualified trainee in time to meet the Contractor's training schedule, or failure by the Purchaser's trainee to: (1) successfully complete the training course; or (2) successfully pass an FAA certification examination shall be at the Purchaser's risk and shall not be cause for withholding payment to the Contractor for furnished equipment and/or installation services that would otherwise be due and payable.

C. Training (If purchased) shall be on site, during the installation, unless otherwise arranged.

D. All Purchaser's trainee(s) are subject to prequalification testing and acceptance by the Contractor.

E. Purchaser shall be solely responsible for all of its representatives being ready for training, which includes trainee(s) salary, travel expenses, and living costs, as well as liability for workman's compensation, accidents, etc while at the contractor's facility or while undergoing on the job training at the site.

F. All Purchaser's representatives being trained shall abide by all rules and regulations of the Contractor during the training period.

COMPLETE AGREEMENT

No CONTRACT TERMS AND CONDITIONS, other than those stated herein, shall be binding on the Contractor unless incorporated herein and stated in the referenced Quotation/Purchase Agreement or Statement of Work. This agreement shall be governed by the Laws of the State of Kansas.

NAUTEL MAINE
MANUFACTURER'S WARRANTY

- A. Manufacturer guarantees all mechanical and electrical parts of the equipment for a period of one year from date of installation, but not exceeding two years from the date of delivery.
- B. A "part failure" shall be deemed to have occurred when the part has become defective, or does not have the characteristics required for the specific equipment performance:
 - (i) When the equipment is operating within the normal service conditions, and
 - (ii) When the equipment is installed and adjusted according to Manufacturer's procedures as stated in the Instruction Manual.
- C. The Manufacturer shall provide replacements for all "parts" at no cost to the Customer when they become defective during the warranty period, and upon the return of the defective part to the Distributor.
- D. In the event that a "part" fails during the warranty period and causes damage to a sub-assembly which cannot be readily repaired in the field, the entire sub-assembly so damaged may be returned to the Distributor for repair. The repairs will be made without cost to the customer.
- E. The Manufacturer or Distributor shall have the privilege of investigating whether failures have been caused by factors beyond his control.
- F. Where free replacements or repairs are provided under items (C) and (D), the Manufacturer shall pay that part of the shipping costs incurred in returning the component/ sub-assembly to the Distributor.
- G. The warranty shall run with the equipment and shall apply both to Distributor and to any party the Distributor has resold the equipment to.
- H. The Manufacturer shall have the option of having the Distributor perform warranty repair service.

City of Fort Wayne
DEPARTMENT OF PURCHASES
 NUMBER ONE EAST MAIN STREET ROOM 940
 FORT WAYNE, IN 46802

PLEASE INDICATE THIS NUMBER
ON ALL CORRESPONDENCE.

QUOTE
NO: **773**

PAGE

#3

DATE OF REQUEST

3-30-83

☐ Quotations

☐ Sealed
☐ Bids

WILL BE RECEIVED AT
THIS OFFICE UNTIL

4/12/83

TO
 Southern Avionics
 P.O. Box 53456
 Beaumont, Texas
 7706

The Contractor and his sub-contractors, if any, shall not discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to his hire, tenure, conditions or privileges of employment or any matter directly or indirectly related to employment, because of his race, color, religion, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

**REQUEST FOR QUOTATION
THIS IS NOT AN ORDER**

PLEASE QUOTE BELOW LOWEST PRICES, WHICH **MUST** INCLUDE ALL DELIVERY CHARGES (INCLUDING FREIGHT, PARCEL POST AND EXPRESS) UNLESS OTHERWISE SPECIFIED, FOR PURCHASING MERCHANDISE OR SERVICE DESCRIBED BELOW.

QUOTATIONS WILL BE OPENED IN ACCORDANCE TO RULES AND REGULATIONS ON THE REVERSE SIDE OF THIS SHEET. RESPECTFULLY,

James Sitton

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
1	Pmt.	NON-DIRECTIONAL BEACON INSTALLED AT SMITH FIELD PER ATTACHED SPECS. OR THE EQUIVALENT		
1		Model SS-250C Radiobeacon	\$ 2,855.00	
1		PC-1000 Antenna Coupler	1,485.00	
1		Minimum Spare Parts Kit	170.00	
1		50' Guyed Mast Antenna	1,865.00	
1		Counterpoise (Ground) System	330.00	
		PLEASE SEND LITERATURE ON THE TYPE QUOTING AND COMPLETE		
1		MR-7 Monitor/Alarm Receiver w/Loop Antenna	985.00	
		BREAKDOWN OF PRICING		
		INSTALLATION	2,785.00	
		TOTAL EQUIPMENT F.O.B. FORT WAYNE, INDIANA	<u>\$10,475.00</u>	

RECEIVED
PURCHASING DEPT.

PRICE QUOTED: \$ 10, 475.00

F.O.B. Fort Wayne, IN

APR 11 1983

VERY: 45 Days ARO

BRAND: Southern Avionics Co.

RECEIVED
PURCHASING DEPT.

APR 1983

SIGNATURE OF BIDDER:

DATE: 4-6-83

James Sitton
 James Sitton, Sales Manager
 SOUTHERN AVIONICS COMPANY

VENDOR 2

THIS IS ONLY AN INVITATION TO QUOTE AND NOT AN ORDER. THE ABOVE QUOTES ARE SUBMITTED IN ACCORDANCE WITH THE REGULATIONS ON THE REVERSE SIDE OF THIS SHEET.

SOUTHERN AVIONICS COMPANY

MANUFACTURERS OF LOW FREQUENCY RADIOBEACONS AND ASSOCIATED PRODUCTS



April 6, 1983

City of Fort Wayne
Dept. of Purchases
Room 940 City-County Bldg.
One Main Street
Fort Wayne, IN 46802

Gentlemen:

Thank you for your invitation to bid for the supply and installation of a non-directional radiobeacon for Smith Field.

In response to your invitation we propose the following:

Southern Avionics Company will supply its 25 watt carrier power radiobeacon Model SS-250C, Minimum Spare Parts Kit, PC-1000 Antenna Coupler, 50' Mast Antenna complete with Counterpoise System and MR-7 Monitor Alarm Receiver delivered to, and installed at Smith Field for the total sum of \$10,475.00.

This bid is based on the following:

1. The owner will provide a site that is cleared and mowed. The soil must permit normal trouble-free trenching to a depth of 18 inches using a "Ditch Witch" or similar trenching machine.
2. A source of 115 V.A.C. power at 20 amps will be brought by the owner to a point within 200 feet of the NDB site. Further, S.A.C. will not be responsible for further routing of the A.C. supply line under any runways, taxiways, roadways or similar obstructions.
3. The owner will identify and mark any underground wires, pipes, or other obstructions in the vicinity of the NDB site. S.A.C. will not be responsible for damage to any unmarked underground facilities.
4. Warranty service will be provided under the terms and conditions of Southern Avionics Company's normal factory warranty, a copy of which is enclosed.

April 6, 1983
Page 2
City of Fort Wayne, Indiana



5. Equipments to be provided under this contract are standard shelf items and their installation is simple and straightforward. Therefore, Southern Avionics Company will provide no drawings or engineering data other than those attached and the normal technical reference manuals supplied with the equipment.
6. It will be the owner's responsibility to perform final installation of the MR-7 Monitor Alarm Receiver. S.A.C. will tune and demonstrate operation of the monitor. The receiver is a desk top model, so the only installation required is the mounting of the outside antenna and routing of the coaxial cable between the receiver and antenna. The antenna is a 2 ft.x 2 ft. loop and a suitable mounting bracket is supplied as standard.

The enclosed quotation includes the equipment required for a basic NDB system. As you can see by the enclosed price list, several options such as a battery standby unit, shelter, etc. are also available. If these options are selected, the installation price will increase slightly. Please contact S.A.C. if you would like quotations on these options.

Thank you again for your invitation to bid. We look forward to your favorable reply.

Very truly yours,

A handwritten signature in dark ink, appearing to read "James Sitton", is written over a horizontal line.

James Sitton
Sales Manager

JS/dc

Enclosures

SOUTHERN AVIONICS COMPANY

MANUFACTURERS OF LOW FREQUENCY RADIOBEACONS AND ASSOCIATED PRODUCTS



Quote To:
City of Fort Wayne
Dept. of Purchases
Room 940 City-County Bldg.
One Main Street
Fort Wayne, IN 46802

Quotation will remain valid until
June 15, 1983 on all items sched-
uled for shipment within 45 days
after receipt of order.

Quote Date: April 5, 1983
Terms: Net 30 days
Quote No: 773
Ship Via: Motor Freight
F.O.B. Fort Wayne, Indiana
Equipment Packed for Domestic or
Air Export Shipment

Shipment can be expected within 45
days after receipt of an order with
frequency assignment and identifi-
cation code.

Q U O T A T I O N

QUANTITY	DESCRIPTION	UNIT PRICE
1 ea.	Model SS-250C Radiobeacon	\$ 2,855.00
1 ea.	PC-1000 Antenna Coupler	1,485.00
1 ea.	Minimum Spare Parts Kit	170.00
1 ea.	50' Guyed Mast Antenna	1,865.00
1 ea.	Counterpoise (Ground) System	330.00
1 ea.	MR-7 Monitor/Alarm Receiver w/ Loop Antenna Installation	985.00
		<u>2,785.00</u>
	TOTAL F.O.B. FORT WAYNE, INDIANA	<u>\$10,475.00</u>

Southern Avionics Company


James Sitton, Sales Manager

1.1 SPECIFICATIONS: SS-250C.

QUALIFICATIONS: Meets applicable requirements of the Federal Aviation Administration (FAA), Federal Communications Commission (FCC), and International Civil Aviation Organization (ICAO).

FREQUENCY: 190 - 625 KHz.

FREQUENCY CONTROL AND STABILITY: Crystal controlled, stability is 0.01% (-45° to $+70^{\circ}\text{C}$), 0.005% (-10° to $+70^{\circ}\text{C}$), 0.001% (0° to $+40^{\circ}\text{C}$).

TYPE OF EMISSION: 1.12A9 (A2H) - Dual Carrier, one carrier runs continuously with modulation accomplished by adding the keyed second carrier. Output waveform is amplitude modulated. Can also be used in AO or A1.

POWER OUTPUT: 5 to 25 watts continuously adjustable into a 50 ohm load. Power increases during modulation.

MODULATION: Keyed 400 Hz or 1020 Hz tone, International Morse Code, any combination of letters or numerals. Modulation percentage adjustable from 80-100 percent.

BANDWIDTH: Either 400 or 1020 Hz depending on tone frequency.

HARMONIC DISTORTION: All harmonics are more than 57 db below the 25 watt carrier, measured at a dummy antenna simulating a SAC Mast Antenna.

CIRCUIT PROTECTION: Lightning protection on power line and antenna connection. Circuit breaker in power line. Fuse in power line to final circuit. Zener protection and fuses on transistors in final circuit. Special current and voltage limiting circuit on 50V DC line.

METERING: RF output power, DC current in one of the final transistors, DC voltmeter, reflected power.

WORKING CONDITIONS: Continuous unattended operation in the following environments: Ambient temperature, -50° to $+70^{\circ}\text{C}$; Relative humidity, 0-100%; High salinity as encountered in offshore conditions.

AUTOMATIC SHUTDOWN: Transmitter shuts down with loss of tone or continuous tone, or extreme distortion due to a change in load, or when power falls below a preset value.

INPUT POWER: 115/230 VAC $\pm 20\%$, 50/60 Hz, 100 watts maximum, or 48 VDC, 1.5 amperes maximum.

EMERGENCY BATTERY SUPPLY: When emergency batteries are used, the transmitter automatically keeps the batteries charged when AC power is available, and automatically switches to batteries on loss of AC power. Four 105 AH deep cycle (marine type) 12V batteries, such as Gould AP-105, will operate the SS-250C for approximately 63 hours.

INSTALLATION REQUIREMENTS: The SS-250C is supplied in a weatherproof enclosure. The SS-250C and the antenna coupler are suitable for pole mounting out-of-doors.

DIMENSIONS:	RADIOBEACON	ANTENNA COUPLER
Height	26 in/66 cm	24 in/61 cm
Width	14 in/36 cm	20 in/51 cm
Depth	9 in/23 cm	20 in/51 cm
Weight	45 lbs/20 kgs	46 lbs/21 kgs
Packaged weight for air shipment	65 lbs/29 kgs	80 lbs/36 kgs

RADIOBEACON MODEL SS-250C FOR LAND INSTALLATION-U.S. AIRPORTS
Carrier Power variable up to 25 Watts, Peak Power to 65 Watts
Cost of Equipment - F.O.B. Beaumont, Texas, USA

Radiobeacon Model SS-250C.	\$ 2,855
Spare Parts Kit Minimum.	170
PC-1000 Metal Antenna Coupler with Autotune.	1,485
Monitor/Alarm Receiver With Loop Antenna	985

Total Radio Equipment Costs (excl. antenna).	160 lbs	\$ 5,495
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ANTENNA

Mast Antenna 50' (15.2m) Guyed	525 lbs	\$ 1,865
Counterpoise (Ground) System	110 lbs	330

Total Mast Antenna With Counterpoise	635 lbs	\$ 2,195
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Symmetrical "T" Antenna Overhead Portion	35 lbs	\$ 360
Counterpoise (Ground) System	115 lbs	330

Total Without Supporting Towers.	150 lbs	\$ 690
Supporting Steel Towers 60' AGL 2 ea. @ \$1,425	770 lbs	2,850

Total Symmetrical "T" Antenna and Supporting Towers	920 lbs	\$ 3,540
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SUMMARY

	Packaged Weight	TOTAL
Total Radio Equip. with Mast Ant. Complete.	795 lbs	\$ 7,690
Total Radio Equip. with Sym. "T" w/o Supports	310 lbs	\$ 6,185
Total Radio Equip. with Sym. "T" and Towers	1080 lbs	\$ 9,035

OPTIONAL

	Packaged Weight	TOTAL
Add'l Spares including printed circuit boards complete with components.		\$ 710
Modular Steel Shelter (3 x 6 x 5 ft. high).	400 lbs	\$ 580
Modular Aluminum Shelter (3 1/2 x 7 x 7 ft. high)	467 lbs	\$ 2,415
Battery Standby Unit (Without Batteries).		\$ 470

Unlighted towers for Sym. "T" Antennas come complete w/hardware and guy wires cut to length.

All Prices Listed are F.O.B. Beaumont, Texas

August, 1982

MODEL SS-250C TRANSMITTER

MINIMUM SPARE PARTS KIT

QTY.	PARTS TO REPAIR	UNIT PRICE	TOTAL AMT.
6 ea.	Transistor 2N3711.	\$ 1.50	\$ 9.00
2 ea.	Transistor 2N3702.	1.50	3.00
1 ea.	Transistor 2N2270.	2.50	2.50
2 ea.	Transistor 2N3440.	3.00	6.00
2 ea.	Transistor 2N5672 (Matched).	30.00	60.00
1 ea.	Transistor 2N2222.	1.50	1.50
1 ea.	Transistor 2N2405.	2.00	2.00
2 ea.	Resistor 2K, 3.25W, 995-3A, #4430	3.00	6.00
2 ea.	Resistor 1 Ohm, 5W, 453E1R05	6.00	12.00
2 ea.	Crystals	17.50	35.00
1 ea.	Box Fuses, 2 amp	1.00	1.00
3 ea.	Diode 1N662.	1.50	4.50
2 ea.	Diode 1N4816	2.00	4.00
1 ea.	Diode 1N1203R or ST240N.	6.00	6.00
1 ea.	Diode 1ZM13T5 or 1N4743A	3.00	3.00
2 ea.	Transzorb 1N5658A.	15.00	30.00
2 ea.	Capacitor MMW-2W1.	3.00	6.00
1 ea.	Unijunction 2N2646	3.00	3.00
1 ea.	Thermistor 2D904	6.00	6.00
1 ea.	Circuit Breaker 44-100-P10	8.00	8.00
Total (If purchased separately, \$208.50)			\$170.00

CORNING

Technical Products Division
Corning Glass Works
Corning, New York 14831
Tel: 607-974-9000

April 13, 1983

City of Fort Wayne
Department of Purchases
Number One East Main Street
Room 940
Fort Wayne, IN 46802

ATTN: Carol Offerle

Dear Carol:

Thank you for the opportunity to quote on installing a non-directional beacon at Smith Field.

Unfortunately, we would have no interest in quoting since Corning Glass Works manufactures only component parts for beacons.

My recommendation would be that you request quotes from Crouse-Hinds which, apparently, you have done. Other suggestions would be:

Hughey-Phillips
3050 N. California Street
Burbank, CA 91504

Unarco Industries
6718 W. Plank Road
Peoria, IL 61600

Sincerely yours,

S. L. Burt

S. L. Burt
Materials Department

g10326

RECEIVED
PURCHASING DEPT.

APR 25 1983

7:30 PM
7,8,9,10,11,12,1,2,3,4,5,6

A

FROM

MANAIRCO INC.

P. O. Box 111

Mansfield, Ohio 44901

(419) 524-2121

City of Fort Wayne
Department of Purchases
Room 940 City-County Bldg.
One East Main St.
Fort Wayne, IN 46802

SUBJECT:

FOLD HERE
DATE

April 07, 1983

MESSAGE

Dear Sirs,

We are unable to bid on the enclosed copy of bid # 773. We have forwarded this bid however to Aviation Systems, Inc. in Kansas City, MO as they will be able to quote on the listed equipment. *KA*

Please keep us on your bid list for future quotations. Thank you.

SIGNED

Dianna Wolford Lombardo
Office Manager

DATE

REPLY

*PO. 12753
Overland Park KA*

66212

*Dave Ferron
913 - 648 - 5313
~~8002~~*

SIGNED

BILL NO. S-83-07-03

REPORT OF THE COMMITTEE ON FINANCE

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS REFERRED AN
ORDINANCE approving Civil City Purchase Order #A-27387 by the City
of Fort Wayne by and through its Board of Aviation and the Department
of Purchasing with Aviation Systems, Inc.

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT
BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE DO PASS.

MARK E. GIAQUINTA, CHAIRMAN

Mark E. Giaquinta

JAMES S. STIER, VICE CHAIRMAN

James S. Stier

JANET G. BRADBURY

Janet G. Bradbury

SAMUEL J. TALARICO

Samuel J. Talarico

DONALD J. SCHMIDT

Concurred in 7-28

DIGEST SHEET

6342

TITLE OF ORDINANCE Special Ordinance

S-83-07-03

DEPARTMENT REQUESTING ORDINANCE Purchasing

SYNOPSIS OF ORDINANCE An ordinance approving the awarding of the quote with
respect to the purchase of a non-directional beacon installed at Smith Field
for the Board of Aviation of the City of Fort Wayne, Indiana.

EFFECT OF PASSAGE The purchase of said beacon will provide needed equipment
for Smith Field.

EFFECT OF NON-PASSAGE Needed beacon will not be purchased.

MONEY INVOLVED (Direct Costs, Expenditures, Savings) Aviation Systems, Inc. -
\$14,420.00

ASSIGNED TO COMMITTEE (President) _____